**Amendments to the Claims:**

This listing of claims will replace all prior versions and listings of claims in the application:

**Listing of Claims:**

Claim 1 (currently amended): A computer-based bill of material (BOM) sorting system for sorting original BOMs, the system comprising:

a database server comprising an original BOM file which comprises information on parts for a product and a part specification file which comprises assembly methods of the parts; and

a plurality of designing computers connected to the database server, wherein each of the designing computers comprises:

a BOM sorting module for accessing the original BOM file and the part specification file, for sorting parts in the original BOM file into surface mount device (SMD) parts, pin through hole (PTH) parts, and empty parts according to the assembly methods in the part specification file, for generating a plurality of sub-files, and for integrating all the sub-files into an executable BOM file that is to be stored in the database server.

Claim 2 (canceled)

Claim 3 (original): The BOM sorting system according to claim 1, wherein the information on the parts comprise a part item name, amount of the part in the product, the part's position in the product, the part's specification, and a detailed description of the part.

Claim 4 (currently amended): The BOM sorting system according to claim 1, wherein the data on the assembly methods of the parts comprise information on ~~surface mount devices (~~SMD~~)~~ parts, ~~pin through hole (~~PTH~~)~~ parts, and empty parts.

Claim 5 (original): The BOM sorting system according to claim 1, wherein the sub-files comprise an SMD sub-file, a PTH sub-file and an empty sub-file corresponding to different assembly methods.

Claim 6 (original): The BOM sorting system according to claim 1, further comprising a database connection module for connecting the BOM sorting module with the files in the database server, wherein the files comprises the part specification file, the original BOM file and the executable BOM file.

Claim 7 (currently amended): The BOM sorting system according to claim 1, wherein the database server comprises a database management module for managing the part specification file, the original BOM file and the executable BOM file, and for creating, adding, deleting, updating and inquiring records in ~~said~~ the part specification, original BOM and executable BOM files.

Claim 8 (currently amended): A bill of material (BOM) sorting method for sorting original bills of material (BOMs), the method comprising the steps of:

accessing an original BOM file and a part specification file;

sorting parts in the original BOM file into surface mount device (SMD) parts, pin through hole (PTH) parts, and empty parts according to assembly methods in the part specification file;

generating a plurality of sub-files; and

integrating all the sub-files into an executable BOM file.

Claim 9 (currently amended): The BOM sorting method according to claim 8, wherein the part specification file ~~comprises~~ is used for storing information on suppliers, vendors, manufacturing management and inventory control, and the assembly methods of parts.

Claim 10 (currently amended): The BOM sorting method according to claim 9, wherein the assembly methods comprise ~~surface mount devices~~ ~~(~~SMD~~)~~ parts, ~~pin through hole (~~PTH~~)~~ parts, and empty parts.

Claim 11 (original): The BOM sorting method according to claim 8, wherein the sub-files comprise an SMD sub-file, a PTH sub-file and an empty sub-file.

Claim 12 (currently amended): A computer-enabled method of sorting ~~bill~~ bills of material ~~(BOM)~~ (BOMs), comprising:

providing a database server comprising an original BOM file~~, an executable BOM file~~ and a part specification file; and

using a BOM sorting module in a designing computer to connect to the database server via a database connection module of the designing computer and a database management module of the database server, so as to integrate ~~plural~~ a plurality of sub-files [[in]] into said executable BOM file, wherein said sub-files are generated by sorting parts in the original BOM file into surface mount device (SMD) parts, pin through hole (PTH) parts, and empty parts according to assembly methods in the part specification file; and

storing said executable BOM file in the database server.